IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Mehta et al.

Title: MULTIPLE ANTENNAS AT TRANSMITTERS AND RECEIVERS TO

ACHIEVING HIGHER DIVERSITY AND DATA RATES IN MIMO SYSTEMS

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

- ___ 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:
 - (1) A Final Action under 37 CFR 1.113; OR
 - (2) A Notice of Allowance under 37 CFR 1.311;

AND is accompanied by either: (check one)

- ____ the Certification under 37 CFR 1.97(e) as set out below; OR
- ____ the fee of \$240.00 under 37 CFR 1.17(p).
- __ 1.97(d) This Information Disclosure Statement is filed after the mailing date of either:
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BUT before payment of the Issue Fee, AND is accompanied by:

- (1) the Certification under 37 CFR 1.97(e) as set out below; AND
- (2) Petition is hereby made under 37 CFR 1.97(d) for consideration of this Information Disclosure Statement; AND,
- (3) Authorization to charge the petition fee of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

certifies that:

each item of information contained in this Information
Disclosure Statement was cited in a communication from
a foreign patent office in a counterpart foreign
application not more than three months prior to the
filing date of this Statement;

or

no item of information contained in this Information
Disclosure Statement was cited in a communication from
a foreign patent office in a counterpart foreign
application, or to the knowledge of the undersigned
Attorney after making reasonable enquiry, was known to
any individual designated in 37 CFR 1.56(c) more than
three months prior to the filing date of this
Statement.

Authorization is hereby given to charge the indicated fee(s) to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to Deposit Account No. 50-0749.

Respectfully submitted,

MITSUBISHI ELECTRAS RESEARCH LABORATORIES

By:

Andrew J. Curtin Reg. No. 48,485

Attorney for Assignee

Mitsubishi Electric Research Laboratories, Inc. 201 Broadway Cambridge, Massachusetts 02139 (617) 621-7539

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Enclosures

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